

wha	Date	Topic	Sub-Topic	Duration(Hrs.)
Day 1 to 3	12 Jan to 14 Jan	Review of key concepts	<ul style="list-style-type: none"> Widely used functions range, xrange, enumerate, iter, map, filter and reduce and lambda functions. List, dictionary and set comprehensions in Python. Iterators and generators Descriptors Decorators Functions, Modules(package), File handling, Exceptions Remote host/device connectivity using paramiko Python debugging through some of popular IDEs (e.g., PyCharm, VS Code) File handling of commonly used file types such as JSON, CSV, XML, etc. including how to modify content. Python subprocess module discussion Threading concepts Virtual environment 	24
	15-Jan	Pongal Holiday / Sankranti		
Day 4 and 5	16 Jan and 19 Jan	Python OOPS	<ul style="list-style-type: none"> Introduction to OOPs Understanding Classes & Objects Parameterized Methods Constructors & Destructors Class types Introduction to Inheritance Types of Inheritance Introduction to Polymorphism Polymorphism on Operators 	16
Day 6	20-Jan-26	Regular Expressions	<ul style="list-style-type: none"> Match and search functions Regular expression patterns Special sequences Meta-characters Assertions Regular expression modifiers 	8
			Milestone 1 - 21 Jan - MCQ + Coding	
Day 7 and 8	21 Jan to 22 Jan	Building and testing REST APIs	<ul style="list-style-type: none"> API introduction HTTP verbs REST principles Building a simple Flask web server application Create application end points. Test API using Postman tool Working with Web & APIs For automation or web interaction. requests library (GET, POST, headers) Parsing HTML (BeautifulSoup, lxml) JSON parsing and serialization Basics of REST API 	16
Day 9	23-Jan-26	Test Automation Frameworks	<ul style="list-style-type: none"> Introduction to automation frameworks in Python Unit testing Test driven development Setting up the development environment 	8
			26 Jan 2026 - Republic Day (holiday)	
Day 10 and 11	27 Jan to 28 Jan	Pytest	<ul style="list-style-type: none"> Pytest overview Test discovery xUnit style setup and teardown Test fixtures Conftest.py Parameterizing tests Assert statements and exceptions. Pytest command line arguments Customizing tests with command line and configuration files Handling skips and expects failures. Distributed and parallel tests Reporting test results and tracking test history Writing and running unit tests Writing functional tests 	16
Day 12 to 14	29 Jan to 30 Jan and 2 Feb	Robot framework	<ul style="list-style-type: none"> Introduction to Robot framework Instructions to setup the environment and relevant packages Robot Framework - RIDE, Writing Simple test case using RIDE. Keyword and Data Driven Test Cases, writing and executing Test Cases Working with Command Line, Test setup and teardown Working with Browsers Using Selenium Library, Text Box, Radio Button, Check Box, Radio Button, Drop Down, Working with built in Library 	24
			Milestone 2 - 3 Feb - MCQ + Use Case	
Day 15 to 17	3 Feb to 5 Feb	Selenium Web Driver framework	<ul style="list-style-type: none"> Introduction and flavours of Selenium Selenium IDE Locators and object identifiers Selenium web driver introduction Handling different controls on web pages using web driver Selenium automation framework Selenium Grid Handling iframes, Handling windows, Selenium waits 	24
Day 18 to 19	6 Feb and 9 Feb	Selenium Web Driver framework	<ul style="list-style-type: none"> Introduction and flavours of Selenium Selenium IDE Locators and object identifiers Selenium web driver introduction Handling different controls on web pages using web driver Selenium automation framework Selenium Grid Handling iframes, Handling windows, Selenium waits 	16
Day 20 and 21	10 Feb to 11 Feb	Data & Automation	<ul style="list-style-type: none"> Numpy, Pandas (data manipulation) Dataframes Matplotlib, Seaborn (data visualization) OpenPyXL / Pandas 	12
Day 22	12-Feb-26	Data manipulation and Analysis	<ul style="list-style-type: none"> Database connectivity for popular SQL/NoSQL DBs (MySQL, MongoDB) Popular Data analysis, processing modules like NumPy, Pandas 	8
Day 23	13-Feb-26	Concurrent Execution	<ul style="list-style-type: none"> Threading (I/O-bound tasks) Multiprocessing (CPU-bound tasks) 	8
Day 24	16-Feb		Capstone	8
Day 25	17-Feb		Final Assessment - 18 Feb - MCQ	8
Day 26	18-Feb		Capstone	8
Day 27	19-Feb		Capstone	8
Day 28	20-Feb		Capstone	8
Day 29	23-Feb		Capstone	8
Day 30	24-Feb	Capstone	Capstone	8
			Total Duration in hours	236
			Duration in days	30

Include modules

How To Inspect Elements On Different Browsers - 1hr 3m

Selenium WebDriver Setup and Installation - 2m

Selenium WebDriver Running Tests on Various Browsers - 1hr 13m

Selenium WebDriver - Finding Elements - 1hr 1m

Cascading Style Sheets (CSS) Selectors - Advanced Locators - 39m

XPath - Advanced Locators - 59m

Selenium WebDriver - Working with WebElements - 1hr 45m

Selenium WebDriver - Useful Methods and Properties - 51m

Selenium WebDriver - Wait Types - 46m

Selenium WebDriver Advanced Interactions - 1hr 27m

Selenium WebDriver - File Upload And Download - 20m

Selenium WebDriver - Switch Window and Iframes - 43m

Selenium WebDriver - Working with Actions Class - 24m

from Selenium WebDriver With Python 3.x - Novice To Ninja [Updated] course